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Substitute for Form 1449/A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application No.	10/583,812
Filing Date	6/22/2006
First Named Inventor	Richard K. Cooper
Group Art Unit	
Examiner Name	
Attorney Docket Number	51687-0261 (51687-331126)

Sheet 1 of 23

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number ⁴	Kind Code ² (if known)			
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Examiner
Signature

/Sumesh Kaushal/ (01/30/2011)

Date
Considered

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				Application No.	10/746,149
				Filing Date	6/22/2006
				First Named Inventor	Richard K. Cooper
				Group Art Unit	
				Examiner Name	
Sheet	2	of	23	Attorney Docket Number	51687-0261 (51687-331126)

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U.S. PATENT DOCUMENTS						
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		Number ⁴	Kind Code ² (if known)			
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	124	WO	94/20608		Creighton University Office of Technology Transfer	09/15/0994		
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	144	Author: AWADE, A.C. Title: On Hen Egg Fractionation: Applications of liquid Chromatography to the Isolation and the Purification of Hen Egg White and Egg Yolk Proteins Publ: <u>Z Lebensm Unters Forsch</u> Vol/Iss: Vol. 202 Pages: 1-14 Date: 01-01-1996	
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	148	Author: BOLLI et al. Title: Insulin Analogues and Their Potential in the Management of Diabetes Mellitus Publ: Diabetologia Vol/Iss: Vol. 42 Pages: 1151-1167 Date: 01-01-1999	
	149	Author: BRINSTER, R.L. Title: Germline Stem Cell Transplantation and Transgenesis Publ: Science Vol/Iss: Vol. 296 Pages: 2174-2176 Date: 06-21-2002	
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				First Named Inventor	Richard K. Cooper
				Group Art Unit	
				Examiner Name	
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	153	Author: DAVIS, M.A. et al. Title: Tn10 Protects Itself at two levels from fortuitous activation by external promoters Publ: Cell Vol/Iss: 43(1) Pages: 379-387 Date: 11-11-1985	
	154	Author: DEMATTEO et al. Title: Engineering Tissue-Specific Expression of a Recombinant Adenovirus: Selective Transgene Transcription in the Pancreas Using the Amylase Promoter Publ: Journal of Surgical Research Vol/Iss: Vol. 72 Pages: 155-161 Date: 01-01-1997	
	155	Author: DESERT, C. et al. Title: Comparisons of Different Electrophoretic Separations of Hen Egg White Proteins Publ: J. Agric. Food Chem. Vol/Iss: Vol. 49 Pages: 4553-4561 Date: 01-01-2001	
	156	Author: DIERICH, A. et al. Title: "Cell-Specificity of the Chicken Ovalbumin and Conalbumin Promoters" Publ: The EMBO Journal Vol/Iss: Pages: 2305-2312 Date: 01-01-1987	
	157	Author: DONG et al. Title: Hepatic Insulin Production Type-1 Diabetes Publ: Trends in Endocrinology & Metabolism Vol/Iss: Vol. 12 No. 10 Pages: 441-446 Date: 12-01-2001	
	158	Author: DUPUY et al. Title: Mammalian Germ-like Transgenesis by Transposition Publ: PNAS Vol/Iss: Vol. 99 No. 7 Pages: 4495-4499 Date: 04-02-2002	
	159	Author: EBARA et al. Title: Possible Abnormalities of Chimeric Chicken Caused by the Introduction of Exogenous Genes into Chicken Embryos via Primordial Germ Cells (PGC's) Publ: Asian-Aus. J. Anim. Sci. Vol/Iss: Vol. 13 No. 11 Pages: 1514-1517 Date: 01-01-2000	

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	161	Author: EGGLESTON et al. Title: A Sensitive and Rapid Assay for Homologous Recombination in Mosquito Cells: Impact of Vector Topology and Implications for Gene Targeting Publ: <u>BMC Genetics</u> Vol/Iss: 2 (21) Pages: 1-9 Date: 12/17/2001	
	162	Author: ETCHES et al. Title: Gene Transfer: Overcoming the Avian Problems (Abstract Provided) Publ: <u>Proceedings, 5th World Congress, University of Guelph</u> Vol/Iss: Vol. 20 Pages: 97-101 Date: 08-01-1994	
	163	Author: ETCHES et al. Title: Manipulation of the Avian Genome Publ: <u>Manipulation of the Avian Genome</u> Vol/Iss: Pages: 322 Date: 01-01-1993	
	164	Author: ETCHES, R.J. et al. Title: Strategies for the Production of Transgenic Chicken Publ: <u>Methods in Molecular Biology</u> Vol/Iss: 62 Pages: 433-450 Date: 01-01-1997	
	165	Author: FALQUI et al. Title: Reversal of Diabetes in Mice by Implantation of Human Fibroblasts Genetically Engineered to Release Mature Human Insulin Publ: <u>Human Gene Therapy</u> Vol/Iss: Vol. 10 Pages: 1753-1762 Date: 07-20-1999	
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	167	Author: FONG, K.P. et al. Title: The genes for benzene catabolism in <i>Pseudomonas putida</i> ML2 are flanked by two copies of the insertion element IS1489, forming a class-I-type catabolic transposon, Tn5542 Publ: <u>Plasmid</u> Vol/Iss: 43(2) Pages: 103-110 Date: 03-01-2000	
	168	Author: GHOSH et al. Title: Liver-directed Gene Therapy: Promises, Problems and Prospects at the Turn of the Century Publ: <u>Journal of Hepatology</u> Vol/Iss: Vol. 32 Pages: 238-252 Date: 01-01-2000	
	169	Author: GIBBINS, A.M. Title: Chickens as Bioreactors - Harvesting Commercially-Valuable Proteins from the Egg Publ: <u>Agri-food Research in Ontario</u> Vol/Iss: Pages: 39-41 Date: 01-01-1996	
	170	Author: GIBBINS, A.M.V. Title: Transgenic Poultry Technology and Food Production Publ: <u>Animal Biotechnology</u> Vol/Iss: Vol. 9 No. 3 Pages: 173-179 Date: 01-01-1998	
	171	Author: GIBBINS, A.M.V. Title: The Chicken, the Egg, and the Ancient Mariner Publ: <u>Nat. Biotechnol.</u> Vol/Iss: Vol. 16, No. 11 Pages: 1013-1014 Date: 01-01-1998	
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	174	Author: GINSBERG et al. Title: The Road Ahead for Biologics Manufacturing Publ: <u>Equity Research</u> Vol/Iss: Pages: 1-23 Date: 01-01-2002	
	175	Author: HACKETT, P.B. et al. Title: Development of Genetic Tools for Transgenic Animals Publ: <u>Transgenic Animals in Agriculture</u> Vol/Iss: Pages: 19-35 Date: 01-01-1999	
	176	Author: HAN et al. Title: Gene Transfer by Manipulation of Primordial Germ Cells in the Chicken Publ: <u>AJAS</u> Vol/Iss: 7(3) Pages: 427-434 Date: 01-01-1994	
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	178	Author: HERMANN et al. Title: Lipoprotein Receptors in Extraembryonic Tissues of the Chicken Publ: <u>J. Biol. Chem.</u> Vol/Iss: Vol. 275 No. 22 Pages: 16837-16844 Date: 06-02-2000	
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	180	Author: HONG et al. Title: Improved Transfection Efficiency of Chicken Gonadal Primordial Germ Cells for the Production of Transgenic Poultry Publ: <u>Transgenic Research</u> Vol/Iss: Vol. 7 Pages: 247-252 Date: 01-01-1998	

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	182	Author: HOUEBINE, L.M. Title: The Methods to Generate Transgenic Animals and to Control Transgene Expression Publ: J. Biotechnol. Vol/Iss: Vol. 98 Nos. 2-3 Pages: 145-160 Date: 09-25-2002	
	183	Author: HOUEBINE, L.M. Title: Transgenic Animal Bioreactors Publ: Transgenic Research Vol/Iss: 9 (4-5) Pages: 305-320 Date: 10/01/2000	
	184	Author: VARIE et al. Title: Avian Transgenesis: Progress Towards the Promise Publ: TRENDS in Biotech Vol/Iss: 21 (1) Pages: 14-19 Date: 01/01/2003	
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	189	Author: KAY et al. Title: Viral Vectors for Gene Therapy: the Art of Timing Infectious Agents into Vehicles of Therapeutics Publ: Nature Medicine Vol/Iss: Vol. 7 No. 1 Pages: 33-40 Date: 01-01-2001	
	190	Author: KLECKNER, N. et al. Title: Transposon Tn10: genetic organization, regulation and insertion specificity Publ: Fed Proc Vol/Iss: 41(10) Pages: 2649-2652 Date: 08-01-1982	
	191	Author: KLUIN, Ph.M. et al. Title: Proliferation of Spermatogonia and Sertoli Cells in Maturing Mice Publ: Anat. Embryol. Vol/Iss: 169 Pages: 73-78 Date: 01-01-1984	
	192	Author: Koga et al. Title: The Medaka Fish Tol2 Transposable Element can Undergo Excision in Human and Mouse Cells Publ: J Hum Genet Vol/Iss: 48 (5) Pages: 231-235 Date: 3/28/2003	
	193	Author: KOUSTENI et al. Title: Reversal of Bone Loss in Mice by Nongenotropic Signaling of Sex Steroids Publ: Science Vol/Iss: Vol. 298 Pages: 843-846 Date: 10-25-2002	
	194	Author: KOZAK, M. Title: At Least Six Nucleotides Preceding the AUG Initiator Codon Enhance Translation in Mammalian Cells Publ: J. Mol. Biol. Vol/Iss: 196 Pages: 947-950 Date: 1987	

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	195	Author: KOZAK, M. Title: Initiation of translation in prokaryotes and eukaryotes Publ: <u>Gene</u> Vol/Iss: 234 Pages: 187-208 Date: 1999	
	196	Author: KUMARAN, J.D.S. et al. Title: The Normal Development of the Testes in the White Plymouth Rock Publ: <u>Testis Development in White Plymouth Rock</u> Vol/Iss: Pages: 511-519 Date: 01-01-1948	
	197	Author: LAMPE, D. et al. Title: Hyperactive transposase mutants of the Himar1 mariner transposon Publ: <u>Proc. Natl. Acad. Sci. USA</u> Vol/Iss: 96 Pages: 11428-11433 Date: 09-01-1999	
	198	Author: MARSHAK, S. et al. Title: Purification of the B-Cell Glucose-sensitive Factor that Transactivates the Insulin Gene Differentially in Normal and Transformed Islet Cells Publ: <u>Proc. Natl. Acad. Sci. USA</u> Vol/Iss: Vol. 93 Pages: 15057-15062 Date: 12-01-1996	
	199	Author: MATHER et al. Title: The Mariner Transposable Element: A Potential Vector for Improved Integration of Transgenes into the Chicken Genome Publ: <u>British Poultry Science</u> Vol/Iss: Vol. 41 Pages: S27-S28 Date: 09-01-2000	
	200	Author: MEISS et al. Title: Vectors for Dual Expression of Target Genes in Bacterial and Mammalian Cells Publ: <u>BioTechniques</u> Vol/Iss: 29(3) Pages: 476, 478, 480 Date: 2000	
	201	Author: MOHAMMED et al. Title: Deposition of Genetically Engineered Human Antibodies into the Egg Yolk of Hens Publ: <u>Immunotechnology</u> Vol/Iss: 4 Pages: 115-125 Date: 1998	

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	203	Author: MURAMATSU, T. et al. Title: Regulation of Ovalbumin Gene Expression Publ: <u>Poultry and Avian Biology</u> Vol/Iss: 6 (2) Pages: 107-123 Date: 01-01-1995	
	204	Author: MUZZIN et al. Title: Hepatic Insulin Gene Expressions as Treatment for aType 1 Diabetes Mellitus in Rats Publ: <u>Mol Endo</u> Vol/Iss: Vol. 11 No. 6 Pages: 833-837 Date: 01-01-1997	
	205	Author: NICKLIN et al. Title: Analysis of Cell-Specific Promoters for Viral Gene Therapy Targeted at the Vascular Endothelium Publ: <u>Hypertension</u> Vol/Iss: Vol. 38 Pages: 65-70 Date: 01-01-2001	
	206	Author: OAKBERG, E. Title: Duration of Spermatogenesis in the Mouse and Timing of Stages of the Cycle of the Seminiferous Epithelium Publ: <u>Duration of Spermatogenesis</u> Vol/Iss: Pages: 507-516 Date:	
	207	Author: Ochiai, H et al. Title: Synthesis of Human Erythropoietin in Vivo in the Oviduct of Laying Hens by Localized in Vivo Gene Transfer using Electroporation Publ: <u>Poultry Science</u> Vol/Iss: 77 (2) Pages: 299-302 Date: 1998	
	208	Author: ONO et al. Title: Gene Transfer into Circulating Primordial Germ Cells of Quail Embryos Publ: <u>Exp. Anim.</u> Vol/Iss: Vol. 4 No. 4 Pages: 275-278 Date: 01-01-1995	

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	209	Author: OSBORNE et al. Title: A System for Insertional Mutagenesis and Chromosomal Rearrangement Using the Ds Transposon and Crelox Publ: Plant J. Vol/Iss: Vol. 7 No. 4 Pages: 687-701 Date: 04-01-1995	
	210	Author: Pain, B et al. Title: Chicken Embryonic Stem Cells and Transgenic Strategies Publ: Cell Tissues Organs Vol/Iss: 165 Pages: 212-219 Date: 1999	
	211	Author: PARK, H. Title: COUP-TF Plays a Dual ROLE in the Regulation of the Ovalbumin Gene Publ: Biochemistry Vol/Iss: 39 Pages: 8537-8545 Date: 01-01-2000	
	212	Author: PHAN et al. Title: Structural Basis for the Substrate Specificity of Tobacco Etch Virus Protease Publ: Journal of Biological Chemistry Vol/Iss: Vol. 277 no. 52 Pages: 50564-50572 Date: 12-27-2002	
	213	Author: PLATON, D. Title: A Shortage of Monoclonal Antibody Manufacturing Capacity Publ: Vol/Iss: Pages: Date:	
	214	Author: PRUDHOMME, M. et al. Title: Diversity of Tn4001 transposition products: the flanking IS256 elements can form tandem dimers and IS circles Publ: J Bacteriol Vol/Iss: 184(2) Pages: 433-443 Date: 01-01-2002	
	215	Author: QIU, Y. Title: Spatiotemporal Expression Patterns of Chicken Ovalbumin Upstream Promoter-Transcription Factors in the Developing Mouse Central Nervous System: Evidence for a ROLE in Segmental Patterning of the Diencephalon Publ: Proc. Natl. Acad. Sci. Vol/Iss: 91 Pages: 4451-4455 Date: 01-01-1994	

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				Filing Date	6/22/2006
				First Named Inventor	Richard K. Cooper
				Group Art Unit	
				Examiner Name	
Sheet	20	of	23	Attorney Docket Number	51687-0261 (51687-331126)

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	216	Author: Richardson, P.D. Title: Gene Repair and Transposon-Mediated Gene Therapy Publ: Stem Cells Vol/Iss: 20 Pages: 112-115 Date: 2002	
	217	Author: SAKAI, J. et al. Title: Two classes of Tn10 transposase mutants that suppress mutations in the Tn10 terminal inverted repeat Publ: Genetics Vol/Iss: 144(3) Pages: 861-870 Date: 11-01-1996	
	218	Author: Sarmasik, Aliye et al. Title: Transgenic live-bearing fish and crustaceans produced by transforming immature gonads with replication-defective pantropic retroviral vectors Publ: Marine Biotechnology Vol/Iss: 3 (5) Pages: 470-477 Date: 2001	
	219	Author: SASAKAWA, C. et al. Title: Control of transposon Tn5 transposition in Escherichia coli Publ: Prod Natl Acad Sci USA Vol/Iss: 79(23) Pages: 7450-7454 Date: 12-01-1982	
	220	Author: SCHLENSTEDT et al. Title: Structural Requirements for Transport of PreprocecropinA and Related Presecretory Proteins into Mammalian Microsomes Publ: The Journal of Biological Chemistry Vol/Iss: 267(34) Pages: 24328-24332 Date: 12/05/1992	
	221	Author: SCHNEIDER et al. Title: An Epitope Tagged Mammalian / Prokaryotic Expression Vector with Positive Selection of Cloned Inserts Publ: Gene: An International Journal on Genes and Genomes Vol/Iss: 197 Pages: 337-341 Date: 1997	
	222	Author: SCHULTZ et al. Title: Translation Initiation of IS50R Read-through Transcripts Publ: J. Mol. Biol. Vol/Iss: 221 Pages: 65-80 Date: 1991	

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	223	Author: SEAL et al. Title: Mutational Studies Reveal a Complex Set of Positive and Negative Control Elements Within the Chicken Vitellogenin II Promoter Publ: <u>Mol. Cell Biol.</u> Vol/Iss: Vol. 11 No. 5 Pages: 2704-2717 Date: 05-01-1991	
	224	Author: SEKINE, Y. et al. Title: Identification of the site of translational frameshifting required for production of the transposase encoded by insertion sequence IS 1 Publ: <u>Mol Gen Genet</u> Vol/Iss: 235(2-3) Pages: 317-324 Date: 11-01-1992	
	225	Author: SEKINE, Y. et al Title: DNA Sequences required for translational frameshifting in production of the transposase encoded by IS1 Publ: <u>Mol Gen Genet</u> Vol/Iss: 235(2-3) Pages: 325-332 Date: 11-01-1992	
	226	Author: SHARMA et al. Title: Pancreatic Islet Expression of the Homeobox Factor STF-1 Relies on and E-box Motif That Binds USF Publ: <u>Journal of Biological Chemistry</u> Vol/Iss: Vol. 271 No. 4 Pages: 2294-2299 Date: 01-26-1996	
	227	Author: SHERMAN et al. Title: Transposition of the Drosophila Element Mariner into the Chicken Germ Line Publ: <u>Nature Biotechnology</u> Vol/Iss: Vol. 16 Pages: 1050-1053 Date: 11-01-1998	
	228	Author: SHERRATT, D. Title: Tn3 and Related Transposable Elements: Site-Specific Recombination and Transposition Publ: <u>Mobile DNA</u> Vol/Iss: Pages: 163-184 Date: 01-01-1989	
	229	Author: SIMONS, R.W. et al. Title: Translational Control of IS10 transposition Publ: <u>Cell</u> Vol/Iss: 34(2) Pages: 683-691 Date: 09-01-1983	

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	230	Author: SLOWINSKI et al. Title: Pattern of Prepro-Endothelin-1 Expression Revealed by Reporter-Gene Activity in Kidneys of Erythropoietin-Overexpressing Mice Publ: <u>Clinical Science</u> Vol/Iss: 103 (48) Pages: 445-475 Date: Clinical Science	
	231	Author: VILEN et al. Title: Construction of Gene-targeting Vectors: a Rapid Mu in vitro DNA Transposition-based Strategy Generating Null, Potentially Hypomorphic, and Conditional Alleles Publ: <u>Transgenic Research</u> Vol/Iss: Vol. 10 Pages: 69-80 Date: 01-01-2001	
	232	Author: Von Specht, M. Title: Expression eines rekombinanten humanen Proteins in vitro und in vivo in Eileiterzellen des Huhnes, am Beispiel von humanem Erythropoietin, hrEPO (English Translation Provided) Publ: <u>Dissertation</u> Vol/Iss: Pages: 49-68 Date: 2002	
	233	Author: Wallace et al. Title: Publ: <u>Biology the Science of Life</u> Vol/Iss: 2 Pages: 235 Date: 1986	
	234	Author: WANG, A. et al. Title: Activation of silent genes by transposons Tn5 and Tn10. Publ: <u>Genetics</u> Vol/Iss: 120(4) Pages: 875-885 Date: 12-01-1988	
	235	Author: XANTHOPOULOS et al. Title: The structure of the gene for cecropin B, an antibacterial immune protein from Hyalophora cecropia Publ: <u>European Journal of Biochemistry</u> Vol/Iss: 172 Pages: 371-376 Date: 1988	
	236	Author: ZAGORAIOU, L. Title: In vivo Transposition of Minos, a Drosophila Mobile Element, in Mammalian Tissues Publ: <u>Proc. Natl. Acad. Sci. USA</u> Vol/Iss: 98 (20) Pages: 11474-11478 Date: 01-01-2001	

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	237	Author: ZHUKOVA et al. Title: Expression of the Human Insulin Gene in the Gastric G Cells of Transgenic Mice Publ: Transgenic Research Vol/Iss: Vol. 10 Pages: 329-341 Date: 01-01-2001			

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